

Work Order ID 81593

81593

Page 1

March-16-12 8:33:47 AM

Item ID: D412-769-041

Accept

N900040100

Setup Start *NS1*

Revision ID:

Item Name: Aft Facing Seat, LH

Stop *NS2*

Start Date: 15/03/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 29/03/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 12/03/16

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN D412-769	Rev C								
100		0.00							
100	DOCUMENT CONTROL								
DC		0.00							
Document Control	Memo								
	Photocopy bluefile & type labels per PPP D412-769-041								
105	Pick Kit	0.00							
105									
Packaging		0.00							
Packaging	Memo								
110	QC4- 100% Inspect kits for completeness	0.00							
110									
QC		0.00							
Quality Control	Memo								

13.3-4
per spec 12621
w 12-07-07

1
LABEL
only
13/04/06
9-89
43/01/01

13.2.4

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 81593

81593

Page 2

March-16-12 8:33:47 AM

Item ID: D412-769-041 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Aft Facing Seat, LH
 Start Date: 15/03/2012 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 29/03/2012 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	Packaging	0.00							
120									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-769-041								
	Location: _____								
	PPP Rev: _____								
130	QC21- Final Inspection - Work Order Release	0.00							
130									
QC	Memo	0.00							
Quality Control									

PP-81591

13/2/4

13/2/5

PLB-024

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

March-16-12 8:33:51 AM

81593

D412-769-041

Required Date: 29/03/2012

Required Qty: 1.00

Comments: IPP rev A 08-07-17 new issue DD verified by:EC
10.03.23 as per IIN revC DD verified by:EC IPP Rev:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D412-724-041		Manufactured	No			110	Each	0.0000	1	1			
D412-724-041													
Head Rest Assembly, Center													
D412-724-043		Manufactured	No			110	Each	1.0000	1	1			
D412-724-043													
Head Rest Assembly, LH													
				<u>Location</u>			<u>Loc Qty</u>						
				FG022			1						
					60366		1						
D412-769-043		Manufactured	No			110	Each	0.0000	1	1			
D412-769-043													
Aft Facing Seat Assembly, LH													

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-769 REV. C AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-769 REV. 1
REF. TCCA STC: SH08-38
REF. FAA STC: SR02682NY
REF. EASA STC: 10027063

PURPOSE

The purpose of this DSI (Dart Service Instruction) is to inform customers and operators that qty(2) D4679-1 Spacers were added to D412-769-011 Aft Facing Seat Kit and D412-769-041/-042 Aft Facing Seat, LH/RH at CHG 002 or later. This change also affects the hardware as shown in Figure 1 of this service instruction.

CHANGE

For replacement parts for D412-769-011/-041/-042 at CHG 002 or later, the parts list of ICA-D412-769 is updated as follows:

25.9 Parts List (ICA-D412-769)

Qty -011	Qty -041	Qty -042	Part Number	Description
X			D412-769-011	AFT FACING SEAT KIT
1	X		D412-769-041	AFT FACING SEAT, LH
1		X	D412-769-042	AFT FACING SEAT, RH
	1		D412-769-043	AFT FACING SEAT ASSEMBLY, LH
		1	D412-769-044	AFT FACING SEAT ASSEMBLY, RH
	2	2	D4679-1	SPACER (ADD)
	11	11	AN525-10R22	SCREW (WAS QTY 13)
	2	2	AN525-10R28	SCREW (ADD)
	11	11	NAS1149D0332J	WASHER (WAS QTY 13)
	23	23	NAS1149D0363J	WASHER (WAS QTY 21)

NOTE: . PART INCLUDED WITH ASSEMBLY ABOVE

WEIGHT AND BALANCE


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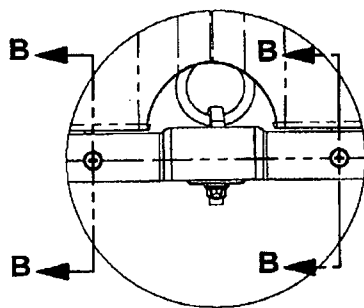
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

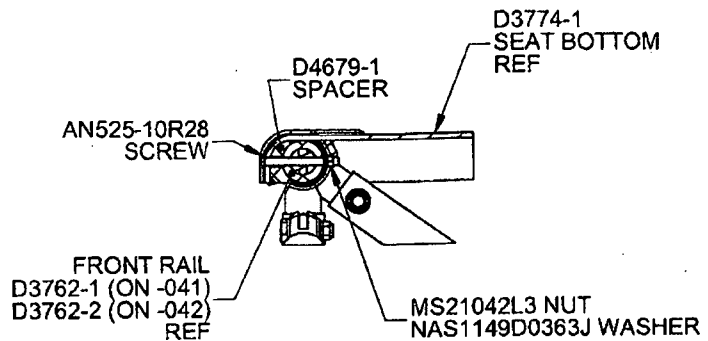
BY: 
D. SHEPHERD (DE # 02)

DATE: 12.07.10
CERT. NO.: SH08-38
ISSUE NO.: 2

A	NEW ISSUE	MB	12.07.10
REV.	DESCRIPTION	BY	DATE
DESIGN	 DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.07.10	REV. A SHEET 1 OF 2 SCALE NTS	
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DETAIL A
Scale 4X



SECTION B-B

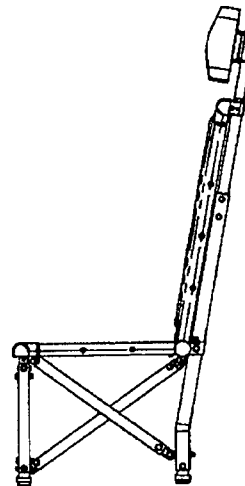
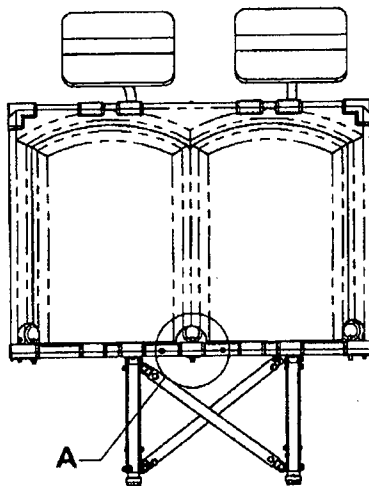


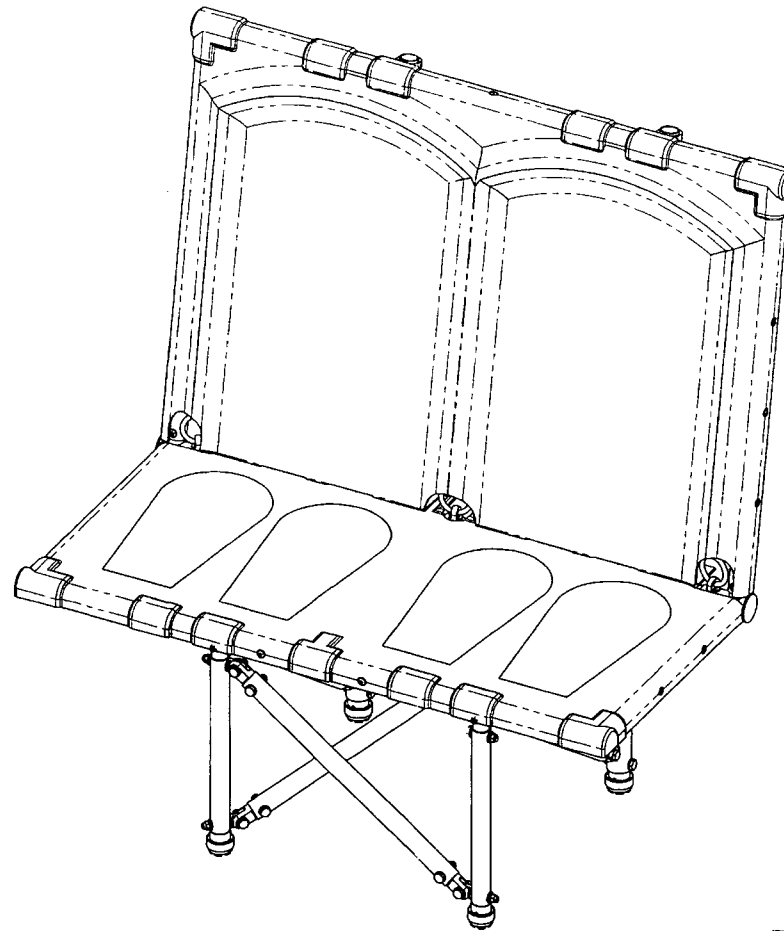
Figure 1: Addition of D4679-1 Spacer
(D412-769-041 shown, D412-769-042 similar)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 12.07.10
CERT. NO.: SH08-38
ISSUE NO.: 2

DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
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CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	DSI 9625	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SPACER ADDITION	NTS
DATE	12.07.10	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

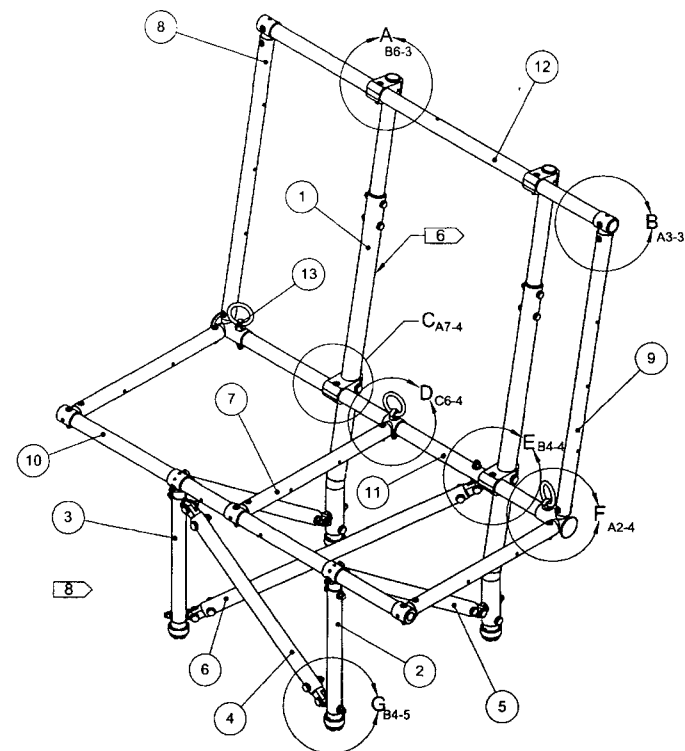


D412-769-043 AFT FACING SEAT ASSY, LH

RELEASED
08.07.09

B	NEW HARDWARE	HS	08.06.25
A	NEW ISSUE	HS	08.06.04
REV.	DESCRIPTION		DATE
DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	HS		
CHECKED	AT	DRAWING NO.	REV. B
MFG. APPR.	AT	D412-769-1	SHEET 1 OF 7
APPROVED	AT	TITLE	SCALE
DE APPR.	AT	AFT FACING SEAT ASSY, LH	NTS
DATE	08.06.25	<small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. (-043)
1	D3782-045	BACK LEG ASSY	2
2	D3782-041	FRONT INBOARD LEG ASSY	1
3	D3782-043	FRONT OUTBOARD LEG ASSY, LH	1
4	D3783-041	LATERAL BRACE ASSY	1
5	D3783-043	LONGITUDINAL BRACE ASSY	2
6	D3783-045	ANGLE BRACE ASSY	1
7	D3784-041	SEAT SUPPORT ASSY	1
8	D3784-043	SEAT SUPPORT ASSY, LH	1
9	D3784-044	SEAT SUPPORT ASSY, RH	1
10	D3766-1	FRONT RAIL, LH	1
11	D3766-3	REAR RAIL	1
12	D3767-1	UPPER RAIL	1
13	D3792-1	SEAT BELT EYE BOLT	3
14	D3775-1	GUARD	2
15	D3774-1	SEAT BOTTOM	1
16	D3774-3	SEAT BACK	1
17	AN3-5A	BOLT	6
18	AN4-15A	BOLT	2
19	AN45-13A	EYE BOLT	1
20	AN5-10A	BOLT	6
21	AN5-13A	BOLT	2
22	AN525-10R22	SCREW	13
23	AN525-10R24	SCREW	9
24	MS21042L3	NUT	28
25	MS21042L4	NUT	2
26	MS21042L5	NUT	12
27	NAS1149D0332J	WASHER (AN960JD10L)	13
28	NAS1149D0363J	WASHER (AN960JD10)	21
29	NAS1149D0463J	WASHER (AN960JD416)	4
30	NAS1149D0568J	WASHER (AN960JD516)	20



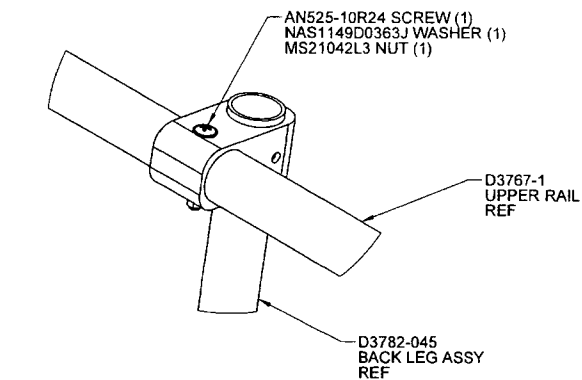
D412-769-043 AFT FACING SEAT ASSY, LH

RELEASED
08.07.09/10

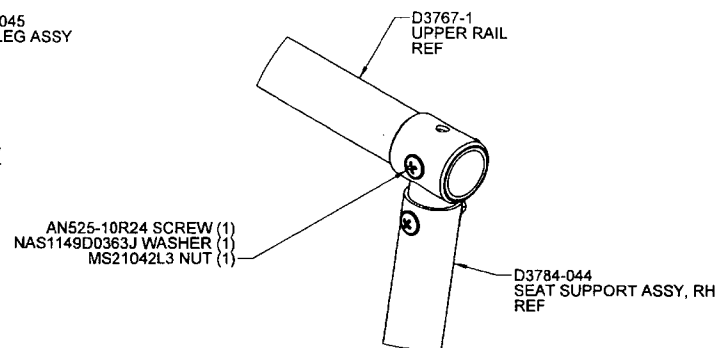
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT ASSEMBLED SEAT "GREY SANDEXT" (4.3.5.6) PER DART QSI 005 4.3 PRIOR TO INSTALLATION OF SEAT BOTTOM/BACK (D3774-1/-3). MASK FRONT LEGS PRIOR TO POWDER COAT.
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH D2729-1 RED DECAL ATTACHED TO BACK LEG ASSEMBLY (D3782-045)
- 7) WEIGHT: 30.0 lbs
- 8) ITEM 15 (D3774-1 SEAT BOTTOM) AND ITEM 16 (D3774-3 SEAT BACK) REMOVED FOR CLARITY

DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	HS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D412-769-1	SHEET 2 OF 7
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DE APPR.		AFT FACING SEAT ASSY, LH	NTS
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DETAIL A D2-2
UPPER RAIL TO BACK LEG ATTACHMENT
2 PL

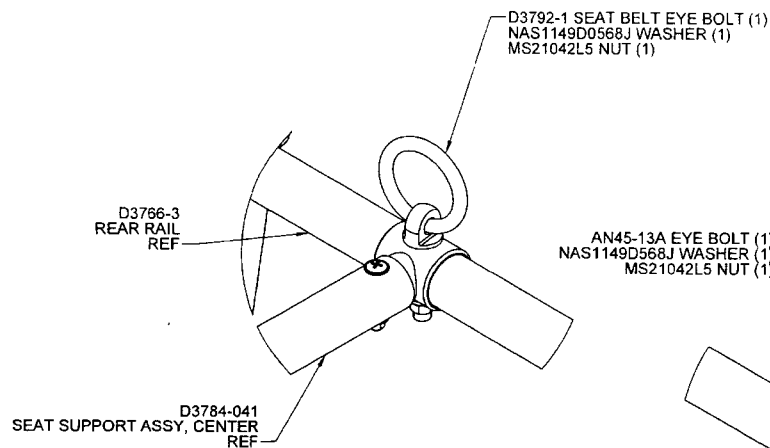


DETAIL B C1-2
SEAT SUPPORT END ATTACHMENT
5 PL

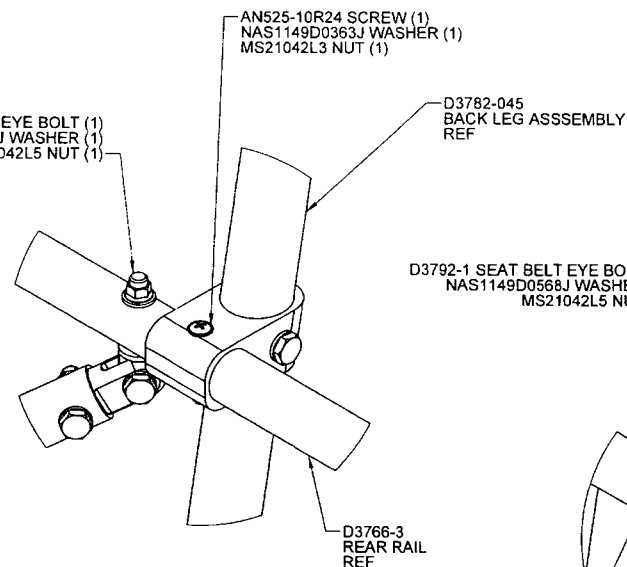
RELEASED
08.07.09

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DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D412-769-1	SHEET 3 OF 7
APPROVED		TITLE	SCALE
DE APPR.		AFT FACING SEAT ASSY, LH	NTS
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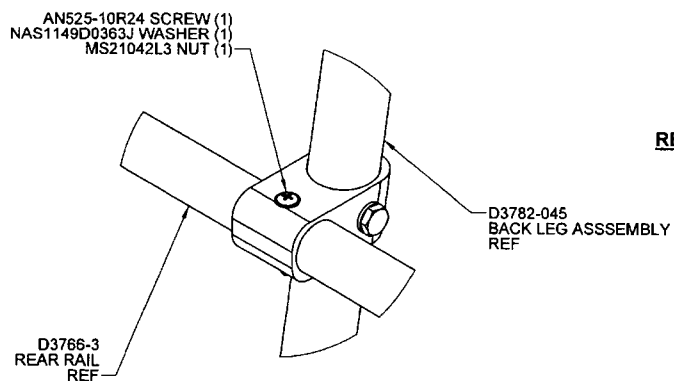
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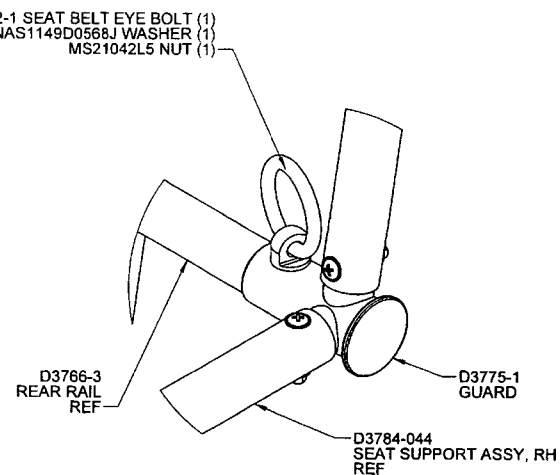
DETAIL D C2-2
SEAT SUPPORT ASSY, CENTER ATTACHMENT



DETAIL E C1-2
REAR RAIL TO BACK LEG ATTACHMENT



DETAIL C C2-2
REAR RAIL TO BACK LEG ATTACHMENT

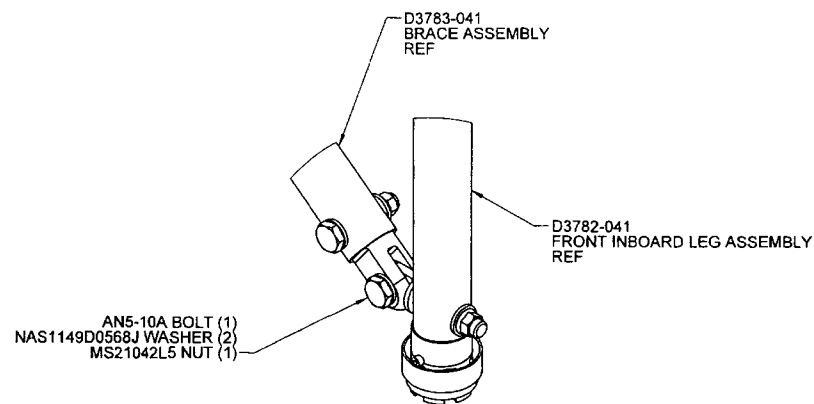


DETAIL F B1-2
SEAT SUPPORT ATTACHMENT
2 PL

RELEASE
08.07.08

DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	HS		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	D412-769-1	SHEET 4 OF 7
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	AFT FACING SEAT ASSY, LH	NTS
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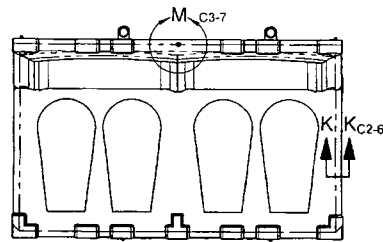
8 7 6 5 4 3 2 1



DETAIL G B2-2
BRACE ATTACHMENT
6 PL

RELEASED
08.07.07/1/1/1

DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AS	DRAWING NO.	REV. B
MFG. APPR.	AS	D412-769-1	SHEET 5 OF 7
APPROVED	AS	TITLE	SCALE
DE APPR.	AS	AFT FACING SEAT ASSY, LH	NTS
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AN525-10R22 SCREW (1)
NAS1149D0332J WASHER (1)
MS21042L3 NUT (1)
3 PL PER SIDE

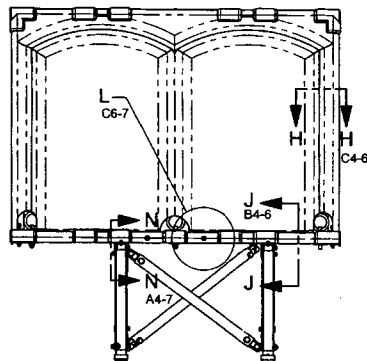
D3784-044
SEAT SUPPORT, RH
REF

AN525-10R22 SCREW (1)
NAS1149D0332J WASHER (1)
MS21042L3 NUT (1)
2 PL PER SIDE

D3774-1
SEAT BOTTOM
REF

SECTION H-H B7-6

SECTION K-K D7-6



D3766-1
FRONT RAIL
REF

SECTION J-J A7-6

D3774-3
SEAT BACK
REF

D3774-1
SEAT BOTTOM
REF

D3766-3
REAR RAIL
REF

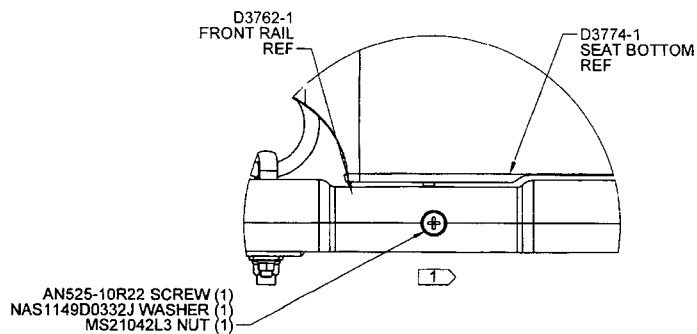
AN3-5A BOLT (1)
NAS1149D0363J WASHER (2)
MS21042L3 NUT (1)
6 PL

RELEASED
08-07-2004

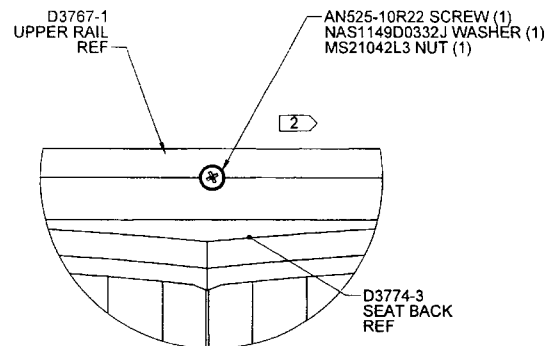
NOTES:

- 1) TRANSFER DRILL $\varnothing 0.201$ FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BACK (D3774-3) - 3 PL/SIDE
- 2) TRANSFER DRILL $\varnothing 0.201$ FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BOTTOM (D3774-1) - 2 PL/SIDE
- 3) TRANSFER DRILL $\varnothing 0.201$ FROM SEAT BOTTOM (D3774-1) TO SEAT BACK (D3774-3) - 6 PL

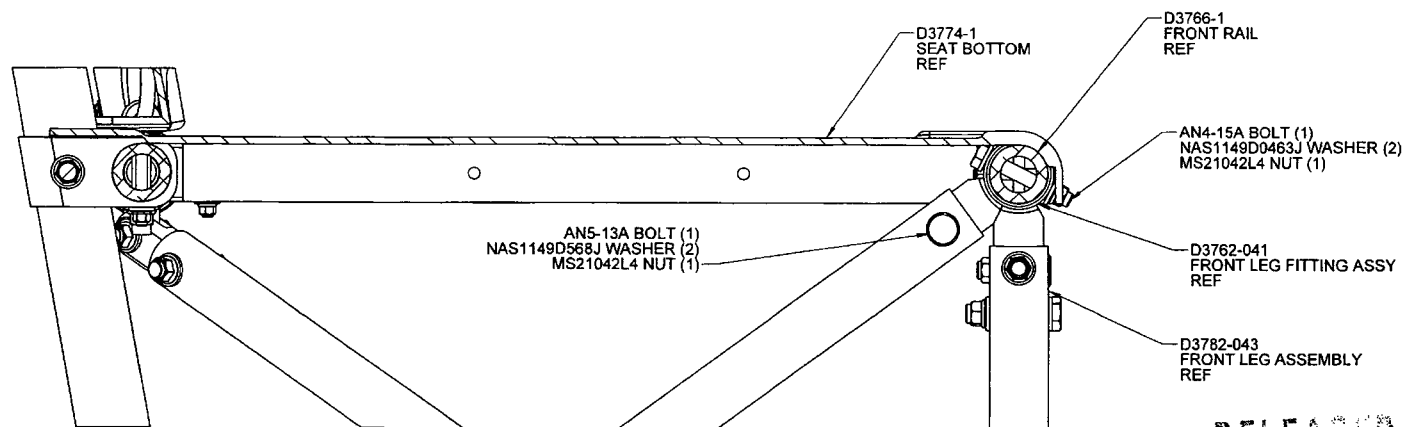
DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	HS	DRAWING NO.	REV. B
MFG. APPR.	HS	D412-769-1	SHEET 6 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	HS	AFT FACING SEAT ASSY, LH	NTS
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DETAIL L A7-6
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL



DETAIL M D7-6
SEAT BACK ATTACH - TOP DETAIL





SECTION N-N A8-6
FRONT LEG AND LONGITUDINAL ANGLE ATTACHMENT
2 PL

NOTES:

- 1) TRANSFER DRILL $\phi 0.201$ FROM FRONT RAIL (D3766-1) TO SEAT BOTTOM (D3774-1) - 2 PL
- 2) TRANSFER DRILL $\phi 0.201$ FROM UPPER RAIL (D3767-1) TO SEAT BACK (D3774-3) - 1 PL

RELEASED
08-07-2008

DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D412-769-1	SHEET 7 OF 7
APPROVED		TITLE	SCALE
DE APPR.		AFT FACING SEAT ASSY, LH	NTS
DATE	08.06.25	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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DRAWING NO. D412-769-1	TITLE AFT FACING SEAT ASSY, LH	REV. B	DART AEROSPACE LTD ENGINEERING ORDER	D.E.O. NO. D412-769-1-B-1	SHEET NO. SHEET 1 OF 2	SCALE NTS
DRAWN	CHECKED <i>UP</i>	MFG. APPR. <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DE APPR. <i>[Signature]</i>		
DATE 12.07.09	DATE 12/7/10	DATE 12-07-10	DATE 12-07-10	DATE 12-07-10		

PURPOSE:

ADDITION OF QTY(2) D4679-1 SPACER PER PAR12-207.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

PART NUMBER	DESCRIPTION	QTY. (-043)
D3782-045	BACK LEG ASSY	2
D3782-041	FRONT INBOARD LEG ASSY	1
D3782-043	FRONT OUTBOARD LEG ASSY, LH	1
D3783-041	LATERAL BRACE ASSY	1
D3783-043	LONGITUDINAL BRACE ASSY	2
D3783-045	ANGLE BRACE ASSY	1
D3784-041	SEAT SUPPORT ASSY	1
D3784-043	SEAT SUPPORT ASSY, LH	1
D3784-044	SEAT SUPPORT ASSY, RH	1
D3766-1	FRONT RAIL, LH	1
D3766-3	REAR RAIL	1
D3767-1	UPPER RAIL	1
D3792-1	SEAT BELT EYE BOLT	3
D3775-1	GUARD	2
D3774-1	SEAT BOTTOM	1
D3774-3	SEAT BACK	1
D4679-1	SPACER	2
AN3-5A	BOLT	6
AN4-15A	BOLT	2
AN45-13A	EYE BOLT	1
AN5-10A	BOLT	6
AN5-13A	BOLT	2
AN525-10R22	SCREW	11
AN525-10R24	SCREW	9
AN525-10R28	SCREW	2
MS21042L3	NUT	28
MS21042L4	NUT	2
MS21042L5	NUT	12
NAS1149D0332J	WASHER (AN960JD10L)	11
NAS1149D0363J	WASHER (AN960JD10)	23
NAS1149D0463J	WASHER (AN960JD416)	4
NAS1149D0568J	WASHER (AN960JD516)	20

NEW

QTY WAS 13

NEW

QTY WAS 13

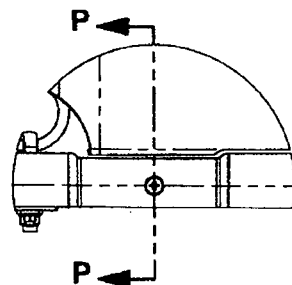
QTY WAS 21

RELEASED
2012-07-16
[Signature]

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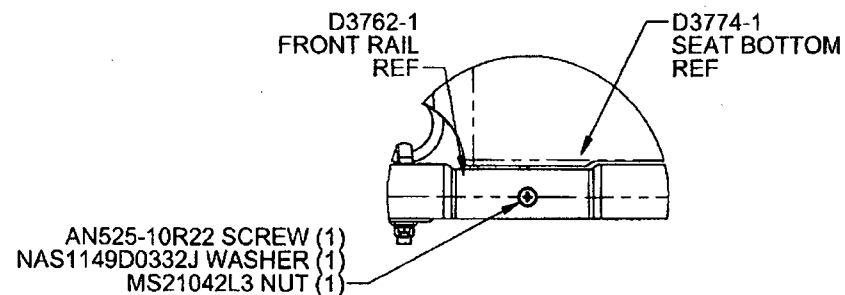
DRAWING NO. D412-769-1	TITLE AFT FACING SEAT ASSY, LH	REV. B	DART AEROSPACE LTD ENGINEERING ORDER	D.E.O. NO. D412-769-1-B-1	SHEET NO. SHEET 2 OF 2	SCALE NTS
DRAWN	CHECKED <i>up</i>	MFG. APPR. <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DE APPR. <i>[Signature]</i>		
DATE 12.07.09	DATE 12/7/10	DATE 12-07-10	DATE 12.07.10	DATE 12.07.10		

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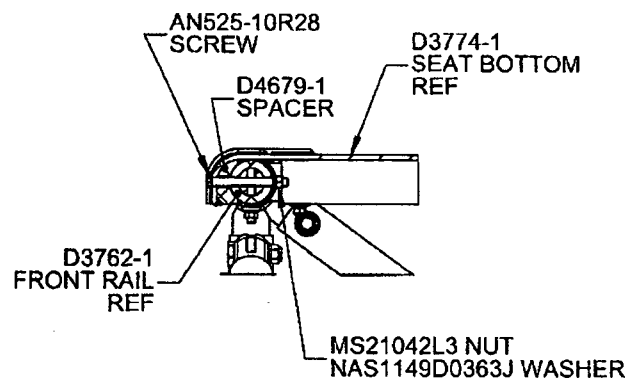


DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL

WAS:

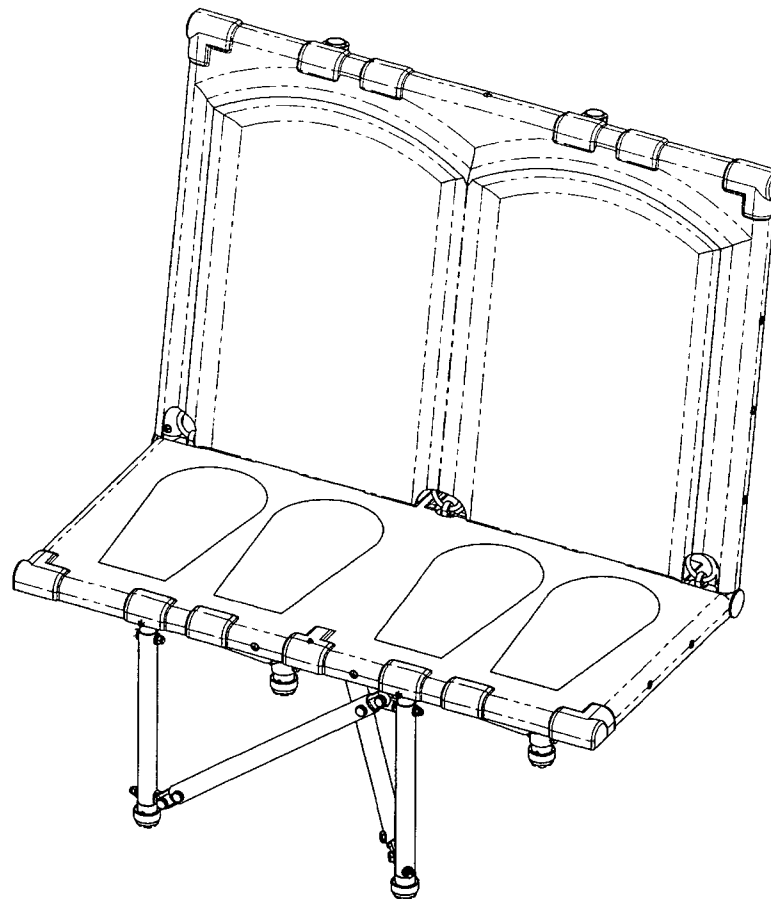


DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL



SECTION P-P
INSTALLATION OF D4679-1 SPACER
2 PL

RELEASED
2012-07-16
[Signature]

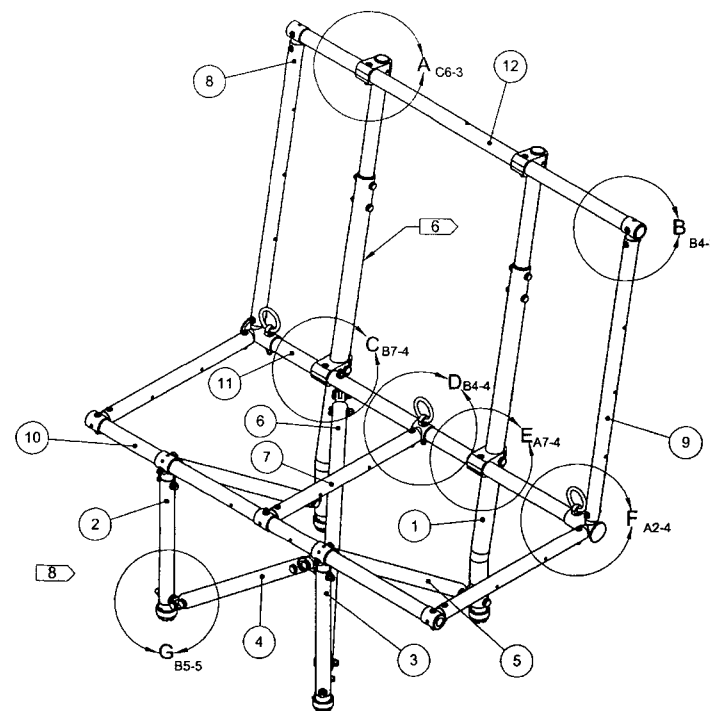


D412-769-044 AFT FACING SEAT, RH

RELEASE
08.07.10/MP

B	NEW HARDWARE	HS	08.06.25
A	NEW ISSUE	HS	08.06.04
REV.	DESCRIPTION	BY	DATE
DESIGN	HS	DART AEROSPACE LTD HAWKESSBURY, ONTARIO, CANADA	
DRAWN	HS		
CHECKED	HS	DRAWING NO.	REV. B
MFG. APPR.	HS	D412-769-2	SHEET 1 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	HS	AFT FACING SEAT ASSY, RH	NTS
DATE	08.06.25	<small>COPYRIGHT © 2004 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. (-044)
1	D3782-045	BACK LEG ASSY	2
2	D3782-041	FRONT INBOARD LEG ASSY	1
3	D3782-044	FRONT OUTBOARD LEG ASSY, RH	1
4	D3783-041	LATERAL BRACE ASSY	1
5	D3783-043	LONGITUDINAL BRACE ASSY	2
6	D3783-045	ANGLE BRACE ASSY	1
7	D3784-041	SEAT SUPPORT ASSY	1
8	D3784-043	SEAT SUPPORT ASSY, LH	1
9	D3784-044	SEAT SUPPORT ASSY, RH	1
10	D3766-2	FRONT RAIL, RH	1
11	D3766-3	REAR RAIL	1
12	D3767-1	UPPER RAIL	1
13	D3792-1	SEAT BELT EYE BOLT	3
14	D3775-1	GUARD	2
15	D3774-1	SEAT BOTTOM	1
16	D3774-3	SEAT BACK	1
17	AN3-5A	BOLT	6
18	AN4-15A	BOLT	2
19	AN45-13A	EYE BOLT	1
20	AN5-10A	BOLT	6
21	AN5-13A	BOLT	2
22	AN525-10R22	SCREW	13
23	AN525-10R24	SCREW	9
24	MS21042L3	NUT	28
25	MS21042L4	NUT	2
26	MS21042L5	NUT	12
27	NAS1149D0332J	WASHER (AN960JD10L)	13
28	NAS1149D0363J	WASHER (AN960JD10)	21
29	NAS1149D0463J	WASHER (AN960JD416)	4
30	NAS1149D0568J	WASHER (AN960JD516)	20



D412-769-044 AFT FACING SEAT, RH

RELEASED
08-07-10

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "GREY SANDEX" (4.3.5.6) PER DART QSI 005 4.3 PRIOR TO INSTALLATION OF SEAT BOTTOM/BACK (D3774-1, -3). MASK FRONT LEGS PRIOR TO POWDER COAT
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH D2729-1 RED DECAL ATTACHED TO BACK LEG ASSEMBLY (D3782-045)
- 7) WEIGHT: 30.0 lbs
- 8) ITEM 15 (D3774-1 SEAT BOTTOM) AND ITEM 16 (D3774-3 SEAT BACK) REMOVED FOR CLARITY

DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	HS		
CHECKED	HS	DRAWING NO.	REV. B
MFG. APPR.	HS	D412-769-2	SHEET 2 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	HS	AFT FACING SEAT ASSY, RH	NTS
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AN525-10R24 SCREW (1)
 NAS1149D0363J WASHER (1)
 MS21042L3 NUT (1)

D3767-1
 UPPER RAIL
 REF

D3782-045
 BACK LEG ASSY
 REF

DETAIL A _{D2-2}
UPPER RAIL TO BACK LEG ATTACHMENT
 2 PL

D3767-1
 UPPER RAIL
 REF

AN525-10R24 SCREW (1)
 NAS1149D0363J WASHER (1)
 MS21042L3 NUT (1)

D3784-044
 SEAT SUPPORT ASSY, RH
 REF

DETAIL B _{C1-2}
SEAT SUPPORT END ATTACHMENT (TYP)
 5 PL

RELEASED
 08-07-10/14

DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	HS		
CHECKED	<i>[Signature]</i>	DRAWING NO. D412-769-2	REV. B
MFG. APPR.	<i>[Signature]</i>	TITLE AFT FACING SEAT ASSY, RH	SCALE NTS
APPROVED	<i>[Signature]</i>	COPYRIGHT © 2004 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	
DE APPR.	<i>[Signature]</i>		
DATE	08.06.25		

D3782-045
BACK LEG ASSY
REF

AN45-13A EYE BOLT (1)
NAS1149D0568J WASHER (1)
MS21042L5 NUT (1)

D3766-3
REAR RAIL
REF

AN525-10R24 SCREW (1)
NAS1149D0363J WASHER (1)
MS21042L3 NUT (1)

DETAIL C C2-2
REAR RAIL TO BACK LEG ATTACHMENT

AN525-10R24 SCREW (1)
NAS1149D0363J WASHER (1)
MS21042L3 NUT (1)

D3766-3
REAR RAIL
REF

D3782-045
BACK LEG ASSY
REF

DETAIL E C2-2
REAR RAIL TO BACK LEG ATTACHMENT

D3784-041
SEAT SUPPORT ASSY, CENTER
REF

D3766-3
REAR RAIL
REF

DETAIL D C1-2
SEAT SUPPORT ASSY, CENTER ATTACHMENT

D3792-1 SEAT BELT EYE BOLT (1)
NAS1149D0568J WASHER (2)
MS21042L5 NUT (1)

D3792-1 SEAT BELT EYE BOLT (1)
NAS1149D0568J WASHER (2)
MS21042L5 NUT (1)





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08-07-12

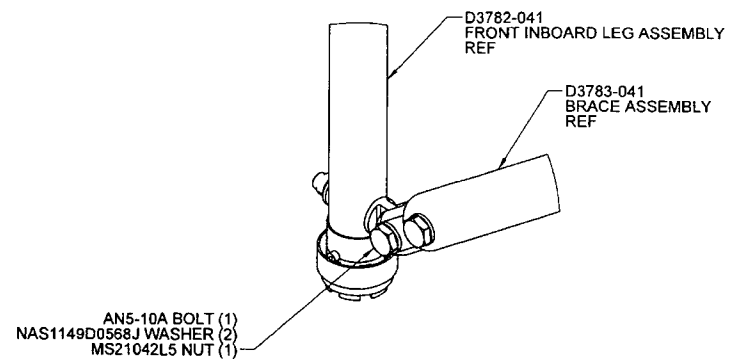
D3775-1
GUARD
REF

D3784-044
SEAT SUPPORT ASSY, RH
REF

D3766-3
REAR RAIL
REF

DETAIL F B1-2
SEAT SUPPORT ATTACHMENT
2 PL

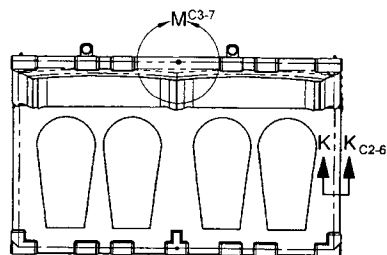
DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D412-769-2	SHEET 4 OF 7
APPROVED		TITLE	SCALE
DE APPR.		AFT FACING SEAT ASSY, RH	NTS
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DETAIL G₈₃₋₂
BRACE ATTACHMENT
6 PL

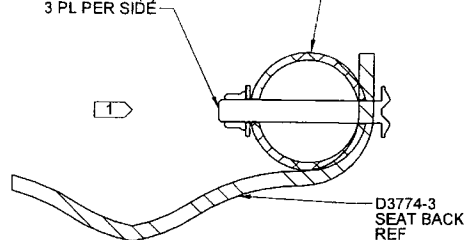
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08.07.10 TTP

DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	D412-769-2	SHEET 5 OF 7
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	AFT FACING SEAT ASSY, RH	NTS
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AN525-10R22 SCREW (1)
NAS1149D0332J WASHER (1)
MS21042L3 NUT (1)
3 PL PER SIDE

D3784-044
SEAT SUPPORT, RH
REF

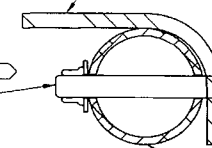


SECTION H-H

B7-6

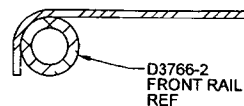
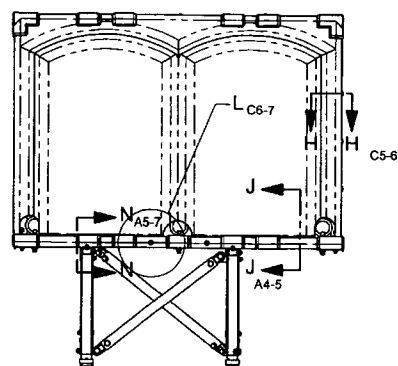
AN525-10R22 SCREW (1)
NAS1149D0332J WASHER (1)
MS21042L3 NUT (1)
2 PL PER SIDE

D3774-1
SEAT BOTTOM
REF



SECTION K-K

D7-6



SECTION J-J

B7-6

D3774-3
SEAT BACK
REF

D3774-1
SEAT BOTTOM
REF

D3766-3
REAR RAIL
REF

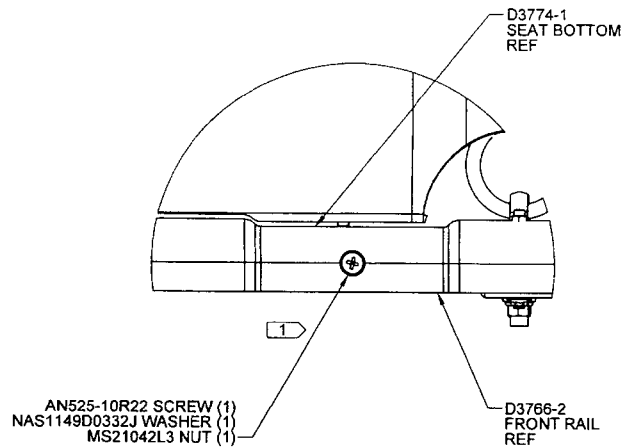
AN3-5A BOLT (1)
NAS1149D0363J WASHER (2)
MS21042L3 NUT (1)
6 PL

RELEASED
68-07-10-14

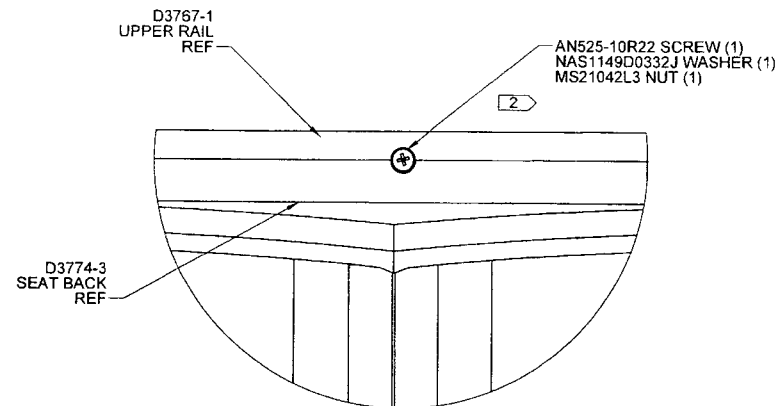
NOTES:

- 1) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BACK (D3774-3) - 3 PL/SIDE
- 2) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BOTTOM (D3774-1) - 2 PL/SIDE
- 3) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM SEAT BOTTOM (D3774-1) TO SEAT BACK (D3774-3) - 6 PL

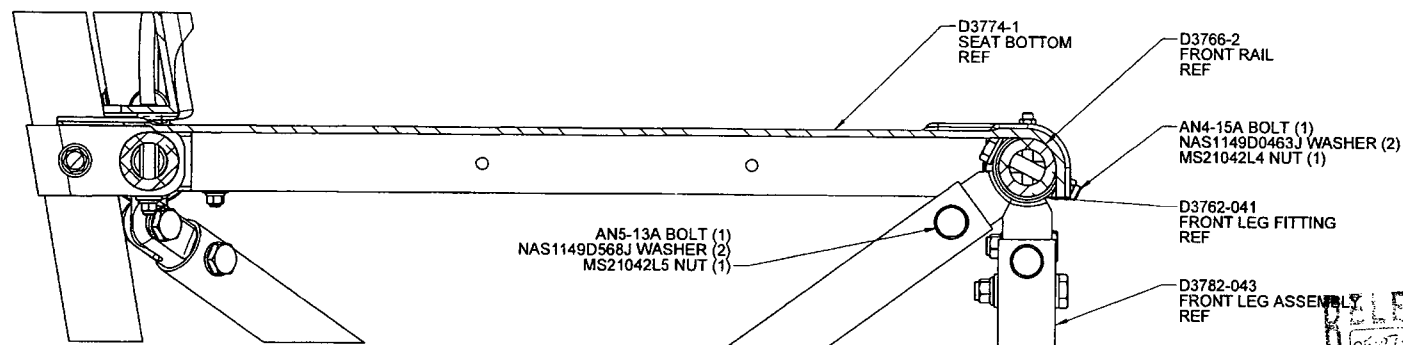
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DRAWN	HS		
CHECKED	<i>[Signature]</i>	DRAWING NO. D412-769-2	REV. B
MFG. APPR.	<i>[Signature]</i>	TITLE AFT FACING SEAT ASSY, RH	SHEET 6 OF 7
DE APPR.	<i>[Signature]</i>	SCALE NTS	
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DETAIL L B7-6
SEAT BOTTOM ATTACH - FRONT DETAIL







DETAIL M D7-6
SEAT BACK ATTACH - TOP DETAIL



SECTION N-N B7-6
FRONT LEG AND LONGITUDINAL ANGLE ATTACHMENT

NOTES:

- 1) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM FRONT RAIL (D3766-2) TO SEAT BOTTOM (D3774-1) - 2 PL
- 2) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM UPPER RAIL (D3767-1) TO SEAT BACK (D3774-3) - 1 PL

DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D412-769-2	SHEET 7 OF 7
APPROVED		TITLE	SCALE
DE APPR.		AFT FACING SEAT ASSY, RH	NTS
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08-07-10

DRAWING NO. D412-769-2	TITLE AFT FACING SEAT ASSY, RH	REV. B	DART AEROSPACE LTD ENGINEERING ORDER		D.E.O. NO. D412-769-2-B-1	SHEET NO. SHEET 1 OF 2	SCALE NTS
DRAWN	CHECKED <i>GP</i>	MFG. APPR. <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DE APPR. <i>[Signature]</i>	DATE 12.07.09	DATE 12/7/10	DATE 12.07.10

PURPOSE:

ADDITION OF QTY(2) D4679-1 SPACER PER PAR12-207.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

PART NUMBER	DESCRIPTION	QTY. (-044)
D3782-045	BACK LEG ASSY	2
D3782-041	FRONT INBOARD LEG ASSY	1
D3782-044	FRONT OUTBOARD LEG ASSY, RH	1
D3783-041	LATERAL BRACE ASSY	1
D3783-043	LONGITUDINAL BRACE ASSY	2
D3783-045	ANGLE BRACE ASSY	1
D3784-041	SEAT SUPPORT ASSY	1
D3784-043	SEAT SUPPORT ASSY, LH	1
D3784-044	SEAT SUPPORT ASSY, RH	1
D3766-2	FRONT RAIL, RH	1
D3766-3	REAR RAIL	1
D3767-1	UPPER RAIL	1
D3792-1	SEAT BELT EYE BOLT	3
D3775-1	GUARD	2
D3774-1	SEAT BOTTOM	1
D3774-3	SEAT BACK	1
D4679-1	SPACER	2
AN3-5A	BOLT	6
AN4-15A	BOLT	2
AN45-13A	EYE BOLT	1
AN5-10A	BOLT	6
AN5-13A	BOLT	2
AN525-10R22	SCREW	11
AN525-10R24	SCREW	9
AN525-10R28	SCREW	2
MS21042L3	NUT	28
MS21042L4	NUT	2
MS21042L5	NUT	12
NAS1149D0332J	WASHER (AN960JD10L)	11
NAS1149D0363J	WASHER (AN960JD10)	23
NAS1149D0463J	WASHER (AN960JD416)	4
NAS1149D0568J	WASHER (AN960JD516)	20

NEW

QTY WAS 13

NEW

QTY WAS 13

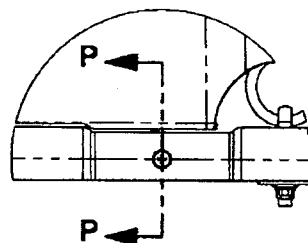
QTY WAS 21

RELEASE
2012-07-16

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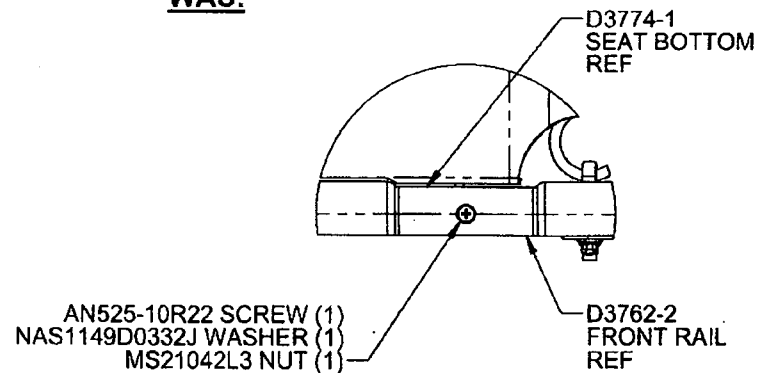
DRAWING NO. D412-769-2	TITLE AFT FACING SEAT ASSY, RH	REV. B	DART AEROSPACE LTD ENGINEERING ORDER	D.E.O. NO. D412-769-2-B-1	SHEET NO. SHEET 2 OF 2	SCALE NTS
DRAWN <i>[Signature]</i>	CHECKED <i>[Signature]</i>	MFG. APPR. <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DE APPR. <i>[Signature]</i>		
DATE 12.07.09	DATE 12/7/10	DATE 12.07.10	DATE 12.07.10	DATE 12.07.10		

IS:

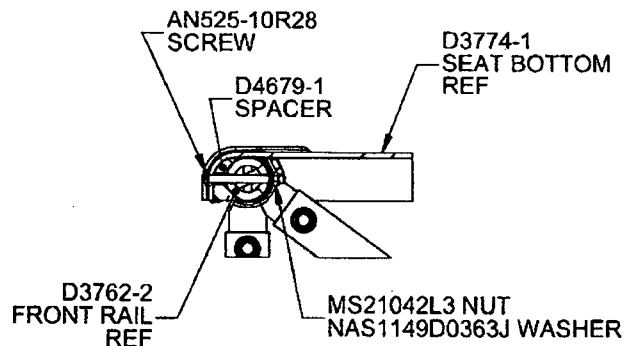


DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL

WAS:



DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL



SECTION P-P
INSTALLATION OF D4679-1 SPACER
2 PL

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2012-07-16
[Signature]

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